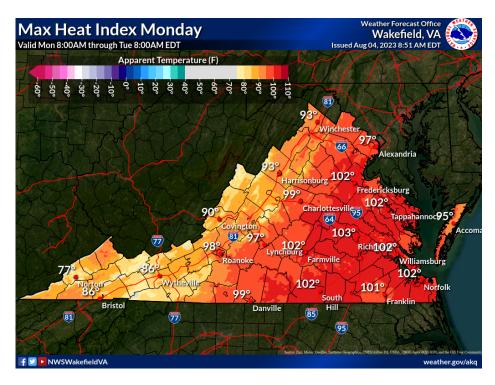


August 4, 2023

Key Takeaways

- COVID-19 indicators are inching upward nationally. In Virginia, COVID diagnoses at emergency facilities are increasing, but hospitalizations and wastewater detections remain steady.
- China is reporting over 100 new mpox cases per week. The mpox situation is stable outside of Asia.
- WHO reported 2 new vaccine-derived polio outbreaks in Africa. In 2021 and 2022, there were 88 active outbreaks, including a case and wastewater detections in New York.
- The CDC has approved a new RSV vaccine for infants. A new COVID-19 booster may also be available in early October.
- Michigan has reported a suspected case of H3 swine flu.
- Extreme heat is expected to return Monday, with much of Virginia experiencing heat indexes above 100° F. The <u>National Weather Service</u> recommends extreme caution in these ranges.

Key Figures



Source: National Weather Service

COVID-19

6%

Chance that the WHO will identify a new COVID-19 Variant of Concern in 2023.
(Metaculus forecast)

51%

Chance that the Virginia will experience a COVID-19 surge in 2023. (Metaculus forecast)

Wildfires

664 of 1,050

The number of uncontrolled wildfires in Canada, out of the total number of active fires.

120 million

The <u>number</u> of Americans living in areas experiencing air quality alerts this summer.

Spotlight:
Polio

Forecasts are italicized

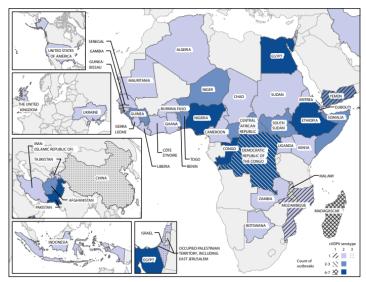
Situation Update Office of Emergency Preparedness



Spotlight

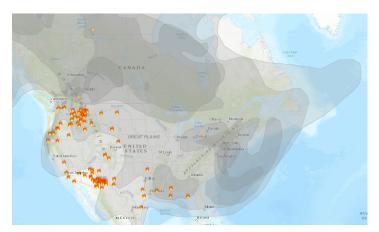
- The WHO <u>reported</u> 2 new vaccine-derived poliovirus (cVDPV) outbreaks in <u>Kenya</u> and <u>Tanzania</u>. The Kenya outbreak is genetically linked to a strain circulating in Somalia, while the Tanzania outbreak is linked to Congo. WHO assessed the risk to be high nationally and regionally.
- A CDC <u>report</u> identified 88 active cVDPV outbreaks affecting 46 countries in 2021 and 2022. VDPV originates in communities that use live, attenuated oral poliovirus vaccine. Where vaccine uptake is low, the vaccine-derived virus can spread among unvaccinated individuals. Over long periods it can mutate to a form that can cause paralysis.
- cVDPV has been detected <u>sporadically</u> in Western countries, including in <u>New York</u> and <u>London</u> in 2022. London's detections were in wastewater only, while New York's wastewater detections were linked to a confirmed case in an unvaccinated adult. In both cases, cVDPV was thought to be imported before circulating among unand under-vaccinated populations.

Polio



While centered in Africa, circulating vaccine-derived polio has also been detected in Asia, Europe and North America. This map show the locations of outbreaks and detections occurring in 2021 and 2022. Image Source: <u>CDC</u>

Other News



Over 120 million Americans lived in areas experiencing air quality alerts this summer. Scientists <u>are working</u> to understand long-term risks. Wildfire smoke still blankets much of the country, but ground-level air quality is expected to remain good or moderate in Virginia over the coming weekend. Source: <u>AirNow.gov</u>

• CDC approves new RSV preventative for infants. The CDC cleared the <u>new monoclonal antibody</u> injection for immunization among infants and high-risk children.

- National COVID-19 indicators inch upward. Across the
 U.S. indicators suggest that <u>COVID-19 is growing slowly</u>. In
 Virginia, the <u>percent of ED and UC visits</u> diagnosed with
 COVID-19 has doubled since July 1. But <u>hospitalizations</u>
 have remain relatively steady, and <u>wastewater surveillance</u>
 does not show significant growth in the Commonwealth.
- COVID-19 booster may be available in October. In an interview, CDC director Dr. Mandy Cohen is quoted as saying she expects a new booster to be available "probably in the early October time frame."
- **Human swine flu case in Michigan.** Michigan authorities have identified a <u>suspected human case of H3</u> variant swine flu. The patient had contact with pigs at a county fair.
- China suffers mpox surge. Asia is the new epicenter of the mpox epidemic, and <u>China is reporting</u> over 100 new cases per week. China has <u>not yet approved</u> any mpox vaccines.
- **Concern rising about nicotine poisoning in children.** As refillable vapes become more common, toxicologists are concerned by the prospect of young children being exposed to the <u>liquid nicotine</u> contained within.